

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/002754

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ G01N21/27, G01N17/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G01N21/00-21/61, G01N17/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WPI/L, JICST FILE (JOIS), Web of Science

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	H. Sato et al.: "Induced Absorption Phenomena, Thermoluminescence and Colour Centres in KMgF ₃ , BaLiF ₃ and LiCaAlF ₆ Complex Fluorides", Japanese Journal of Applied Physics, Vol. 41, Part 1, No. 4A, April 2002, pages 2028 to 2033; see section 2.2, 3.1; Fig. 1	1, 3-9, 11 2, 10 12-13
Y A	Shin'ichiro TOZAWA et al: "Kogaku Zairyo CaF ₂ no Kaishitsu", Tohoku University Kinzoku Zairyo Kenkyusho Gijutsu Gijutsu Kenkyu Hokoku, ISSN: 1341-3422, No. 19, March 2001, pages 29 to 32; section 2, Par. Nos. [0001] to [0002]; section 3, last Paragraph; Figs. 1, 2, 5	2, 10 12-13

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search
06 April, 2004 (06.04.04)Date of mailing of the international search report
20 April, 2004 (20.04.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	M. Brekhovskikh, et al.,: "Influence of fluoro-oxidizers on scintillation properties of fluoro-hafnate glass doped with Ce ³⁺ ", Journal of Non-Crystalline Solids, Vol.277, Issue 1, November 2000, pages 68 to 71	1
P,A	H. Sato, et al.,: "Improvement in the quality of LiCaAlF ₆ single crystal as window material", Oprical Materials, Vol.24, Issues 1-2 (Proceedings of the Fifth French-Israeli Workshop on Optical Properties of Inorganic Materials: 08 December, 2002 (08.12.02) - 12 December, 2002 (12.12.02), October - November, 2003; pages 123 to 127	1